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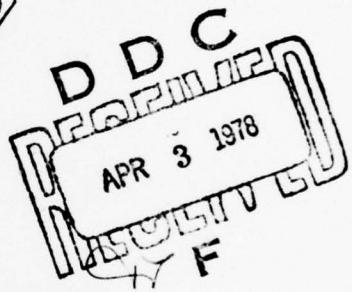
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① OCCUPATIONAL SURVEY REPORT ②



⑥ ELECTRONIC COMPUTER SYSTEMS CAREER LADDER,
AFSCs 30534, 30554, 30574, and 30594.

⑪ 30 DECEMBER 1977
⑫ AFPT-90-305-257 D69p.

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

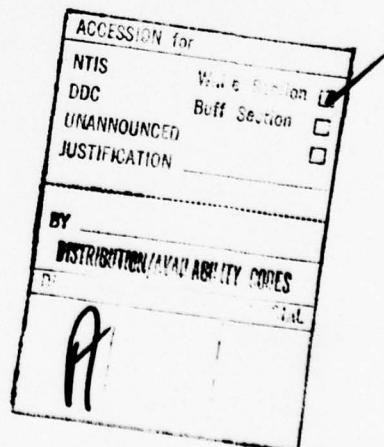
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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Electronic Computer Systems career ladder (AFSCs 30534, 30554, 30574, and 30594). This project was directed by USAF Program Technical Training, Volume 2, dated October 1976. Authority for conducting specialty surveys is contained in AFR 35-2. Computer outputs from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Mr. James L. Slovak, Inventory Development Specialist. Mr. Reginald G. Nolte analyzed the survey data and wrote the final report. This report has been reviewed and approved by Major Walter F. Kasper, Chief, Airman Career Ladders Analysis Section, Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas, 78236.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Col, USAF
Commander
USAF Occupational Measurement
Center

WALTER E. DRISKILL, Ph.D.
Chief, Occupational Survey Branch
USAF Occupational Measurement
Center

SUMMARY OF RESULTS

1. Survey Coverage: Inventory booklets were administered to Electronic Computer Systems career ladder incumbents during the period November 1976 through June 1977. Survey results are based on responses from 1,820 incumbents holding DAFSCs 30534, 30554, 30574, and 30594. This represents 68 percent of the 2,665 personnel assigned to the career ladder.
2. Career Ladder Structure: Nineteen groupings of jobs were identified within the career ladder, with 48 percent of the survey respondents falling into a single group (Computer Systems Repairmen). The remaining personnel were identified as supervisors, controllers, monitors, instructors, quality control personnel, and other small, specialized groups.
3. AFR 39-1 Evaluation: Specialty descriptions for all skill levels in the career ladder appear to accurately depict major duties and tasks performed by survey respondents.
4. STS Review: Comparison of the current STS with survey data showed that the STS was an accurate outline of job tasks. All major functions identified during the occupational analysis were covered in detail in the STS.
5. Job Satisfaction: Sixty-seven percent of the first enlistment group indicated that they found their jobs interesting. This relates well to the 65 percent for respondents in 23 career ladders surveyed in CY 1976. Perceived utilization of talents compared very favorably with 1976 survey results; however, only 68 percent of first enlistment respondents indicated their training was being used fairly well or better. This percentage is slightly below the 79 percent for respondents in 21 career ladders surveyed in 1976.

OCCUPATIONAL SURVEY REPORT
ELECTRONIC COMPUTER SYSTEMS CAREER LADDER
AFSCs 30534, 30554, 30574, 30594

INTRODUCTION

This is a report of an occupational survey of the Electronic Computer Systems career ladder (AFSCs 30534, 30554, 30574, and 30594) which was completed by the Occupational Survey Branch, USAF Occupational Measurement Center, in December 1977. The previous occupational survey of this career ladder was published during December 1972.

At the time of the last occupational survey, the career ladder consisted of four shredouts to identify major equipment manufacturers. Due to the numerous varieties of systems and related equipment in the field, these shreds were not found to be useful in identifying command training needs on the predominant command systems and equipment being utilized in the field. Therefore, the shreds were abolished as of May 1975. In late 1977, a series of Special Experience Identifiers (SEIs) were adopted to track trainees to their first job assignment and insure that the assignment matched the training the airmen had received in the Technical Training School.

INVENTORY DEVELOPMENT AND ADMINISTRATION

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-305-257. The task list developed for the 1972 study of this career ladder served as a basis for the new task inventory. The previous task list was expanded and refined through a thorough research of career field publications and directives, personal interviews with 15 subject-matter-specialists at three bases, and written reviews from 44 experienced incumbents in the Electronic Computer Systems career ladder. The final result was a job inventory consisting of 577 tasks grouped under 14 duty headings.

Consolidated base personnel offices in operational units worldwide completed the administration of the inventory booklets to job incumbents holding the Electronic Computer Systems DAFSCs in June 1977. Table 1 reflects the percentage distribution, by major command, of assigned personnel in the career ladder as of June 1977. Also reflected is the distribution, by major command, of incumbents in the final survey sample. The 1,820 respondents making up this final sample represents 68 percent of the total AFSC population of 2,665 members.

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TABLE I
COMMAND REPRESENTATION OF SURVEY SAMPLE
305X4

<u>COMMAND</u>	<u>PERCENT OF PERSONNEL ASSIGNED BY COMMAND</u>	<u>PERCENT OF SURVEY SAMPLE BY COMMAND</u>
AFCS	44	40
ADC	29	30
TAC	10	9
ATC	5	6
AFSC	4	6
USAFSS	4	4
SAC	2	3
AAC	1	1
AFLC	1	1
	100	100

TOTAL ASSIGNED: 2,665
 NUMBER SAMPLED: 1,820
 PERCENT OF ASSIGNED: 68%

CAREER LADDER STRUCTURE

A key aspect of the USAF occupational analysis program is to examine the actual structure of career fields - what people are doing in the field (rather than how official career field documents say they are organized). This analysis is made possible by the Comprehensive Occupational Data Analysis Programs (CODAP) which generate a hierarchical clustering of all jobs based on the similarity of tasks performed. This process permits identification of the major types of work being performed within the occupation (career field) and is analyzed in terms of job descriptions and background data of each job group. This information is used to examine the accuracy and completeness of present career field documents (AFR 39-1 Specialty Description and STS) and to formulate an understanding of current utilization patterns.

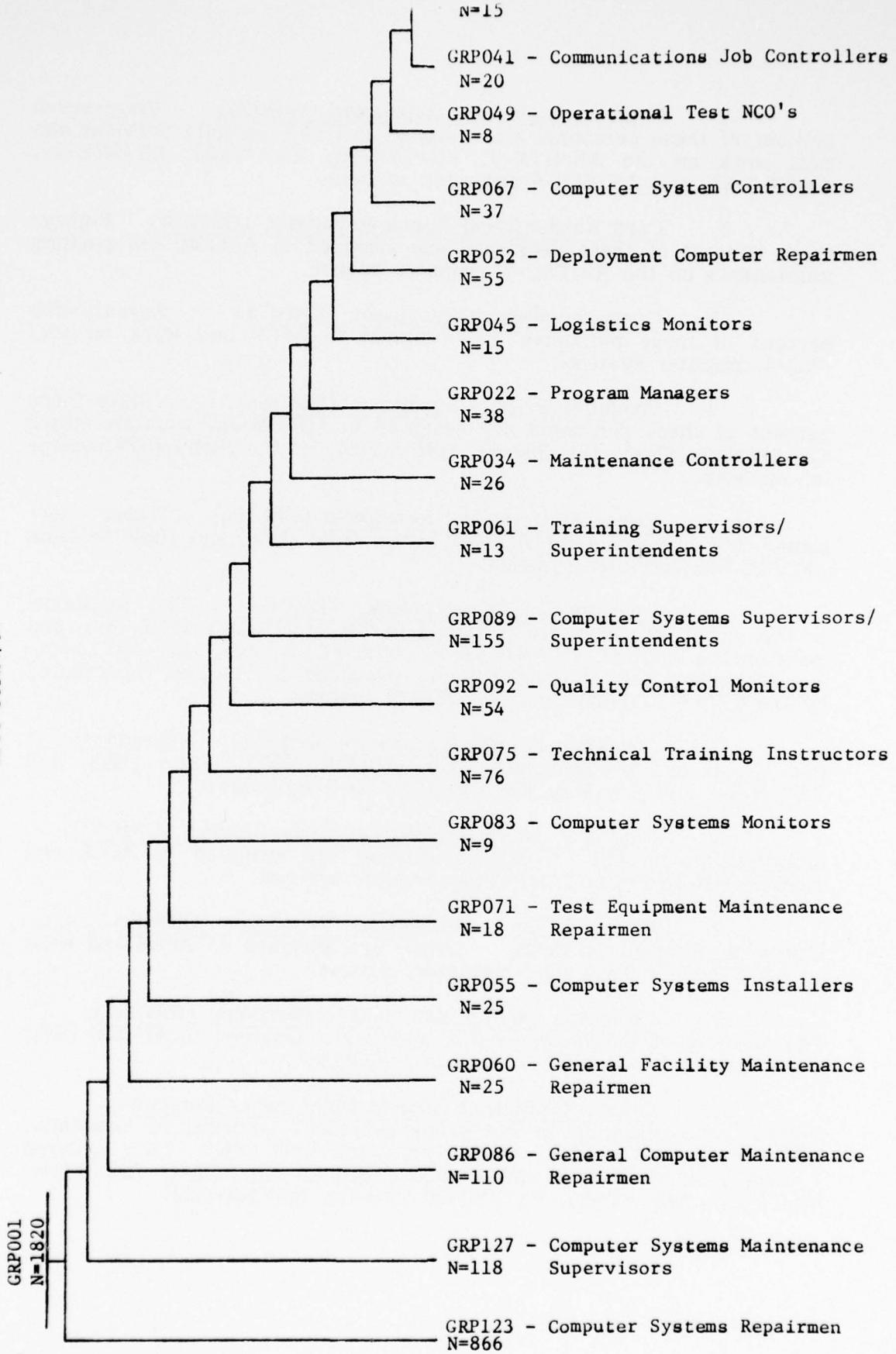
Based on task similarity, the most realistic division of the jobs performed in the Electronic Computer Systems career ladder was determined to be as illustrated in Figure 1. Brief descriptions are given below of the 19 groups which encompass the functions of this career ladder. A more complete summary of representative tasks and background information for these groups can be found in Appendix A. The GRP numbers used in conjunction with each group in the narrative and in Appendix A are references to computer information (EXTRCT) forwarded to some users' for additional analysis in support of classification or training decisions. These computer products are available to others upon request.

I. Computer Systems Repairmen - (GRP123) - The 866 members making up the Computer Systems Repairmen group comprise 48 percent of the total survey sample. Personnel in this group are primarily involved with maintaining in-place electronic computer systems and related equipment. Tasks performed by respondents averaged 124 tasks or 21 percent of the 577 tasks in the inventory booklet. The majority of the respondents were 5-skill level airmen in their second enlistment. Command distribution of this group reflected that the majority of these members were assigned to either the Air Force Communications Service (46 percent) or the Air Defense Command (34 percent).

Within this rather large cluster, there were eleven sub-groups or job types identified. These sub-groups are discussed below and in Appendix A under the main group (Computer Systems Repairmen-GRP123). The differentiating feature of these job types is that in addition to performing maintenance on in-place electronic computer systems, they perform tasks which indicate a degree of equipment specialization, such as working on magnetic tape units, memory units, printer units, or computer keyboards. In addition, there is a degree of command orientation which is probably also a result of the specialization on computer system or subsystem.

FIGURE 1

ELECTRONIC COMPUTER SYSTEMS CAREER LADDER
AFSC 305X4/94



1. Magnetic Tape Unit Repairmen (GRP274). Sixty-seven percent of these personnel are assigned to USAF Security Services and most work on the AN/GYK-9, AN/GYK-22, AN/GYK23, AN/GYK-25, AN/FYQ-67, and AN/FLR-9 computer systems.

2. Card Reader/Card Punch Repairmen (GRP654). Eighty-three percent of these personnel are assigned to ADCOM and perform maintenance on the AN/FSQ-7 computer system.

3. Computer Memory Repairmen (GRP473). Seventy-five percent of these personnel are assigned to AFCS and work on AN/FYQ-5 computer systems.

4. Computer Printer Repairmen (GRP366). Sixty-three percent of these personnel are assigned to ADCOM and maintain either the SIGMA5 (SDS), IBM 360-40, IBM 360-65, or the IBM 360-75 computer systems.

5. Computer Keyboard Repairmen (GRP608). These personnel are predominately ADCOM incumbents (76%) and they maintain UNIVAC 1218 computer systems.

6. Operator Console Repairmen (GRP458). The personnel in this group are assigned primarily to TAC (52%) and AFCS (31%) and work on the AN/UYK-7, AN/UYK-15, AN/UYK-25, 4118, and 2100 computer systems. New equipment being procured by TAC is represented by the TSQ-91, OJ-108, and AN/QYC-10 systems.

7. Computer Display Repairmen (GRP265). Personnel in this group are predominantly from ADCOM (55%), AFCS (18%), and TAC (18%), and primarily maintain AN/FSQ-7 equipment.

8. Computer Equipment Printer Crew Leaders (GRP757). Eighty-eight percent of these personnel are assigned to AFCS and maintain AN/FYQ-3 or AN/FYP-4 computer systems.

9. Computer Equipment Printer Repairmen (GRP415). Eighty-six percent of these personnel are assigned to AFCS and work on AN/FYQ-3 or AN/FYQ-4 computer systems.

10. Computer Facility Maintenance Personnel (GRP306). The majority of personnel in this group are assigned to ADCOM (89%) and maintain the AN/FYQ-47 computer system.

11. Optical Equipment Display Maintenance Personnel (GRP160). The personnel in this group represent a number of commands; AFC (29%), ADCOM (24%), AFSC (19%), and AAC (14%). They maintain a variety of equipment and systems such as AN/FYQ-4, AN/FYQ-6, AN/FYQ-8, AN/FYQ-26, AN/FYQ-28, TT-414, and MX-4251.

II. Computer Systems Maintenance Supervisors - (GRP127).

The 118 members comprising the Computer Systems Maintenance Supervisors group perform a relatively high number of tasks relating to computer systems equipment service and repair functions. Typical tasks performed are initiate or review maintenance data collection records; interpret fault indicators; analyze logic diagrams; and schedule shifts or work assignments. The majority of these incumbents are assigned to Air Defense Command. Two sub-groups appear in this group: Computer Systems Shift Supervisors (GRP421) and Computer Systems Troubleshooting Supervisors (GRP437).

III. General Computer Maintenance Repairmen (GRP086).

110 members of this group perform a relatively small number of tasks (59) related to general maintenance, such as cleaning equipment or facilities, lubricating equipment, applying corrosion control preventives, and performing a number of simple inspection functions. The average time in the career ladder for these incumbents is less than forty-eight months.

IV. General Facility Maintenance Repairmen (GRP060). The 25 members comprising the General Facility Maintenance Repairmen group perform an average of 53 tasks, most of which are related to maintaining in-place electronic computer systems and monitoring and operating electronic computer systems. Representative tasks are clean facilities; maintain visual watch during operations; operate central computers; perform operational tests of computer systems; and similar relatively basic tasks. The average time in the career ladder is under 48 months.

V. Computer Systems Installers (GRP055). This group of 25 members represents a small segment of the survey respondents and perform basic computer systems maintenance and installation. The number of average tasks performed is quite low and relate to relatively basic tasks such as remove or install electrical wiring; assemble, wire, or connect component parts for modification or reconfiguration; tighten system hardware, such as door hinges or latches; and perform operational checks of newly installed equipment.

VI. Test Equipment Maintenance Repairmen (GRP071). This rather unique group of 18 respondents are primarily assigned to the Air Defense Command and maintain, repair, and inspect test equipment.

VII. Computer Systems Monitors (GRP083). This is another small group consisting of nine 7-skill and 9-skill level airmen who monitor and operate electronic computer systems. They are also involved in contractor evaluation. Most members of this small group are assigned to TAC or AFCS.

VIII. Technical Training Instructors (GRP075). As would be expected, nearly all 76 members of this group are assigned to ATC.

There are, however, a few assigned to USAFSS and TAC. The majority of ATC respondents are assigned to the 3391st School Squadron at Keesler AFB, MS. Primary tasks are conduct formal technical courses, administer oral or written tests, demonstrate use of equipment or tools, and conduct skill performance tests.

IX. Quality Control Monitors (GRP092). The 54 members of this group perform a relatively low average number of tasks (68) related to quality control activities. Inspections, evaluations, and initiating or reviewing forms and reports are typical of the types of activities of these incumbents. Nearly 90 percent of these personnel are 7- and 9-skill level airmen. Eighty-five percent of these members are distributed among AFCS, ADCOM, or TAC.

X. Computer Systems Superintendents/Supervisors (GRP089). This group of 155 personnel, primarily 7- and 9-skill levels, engage in supervising and evaluating computer systems equipment service or repair functions. Typical supervisory tasks include review or follow-up inspection reports, prepare APR or supervisory evaluation records, initiate or review job proficiency guide continuation sheets, implement OJT programs, and schedule shifts or work assignments.

XI. Training Supervisors (GRP061). This group of 13 respondents are primarily 7-skill level personnel who supervise training personnel. They are mainly assigned to school squadrons and field training detachments. Typical tasks include schedule shifts or work assignments, direct training or training support functions, attend training conferences or meetings, and prepare APRs or supervisory evaluation records.

XII. Maintenance Controllers (GRP034). The 26 members of this group are involved in planning, scheduling, and controlling maintenance workloads. Some typical tasks are establish communications between work centers or staff agencies, review workloads or scheduling, and initiate or review maintenance data collection records. The average number of tasks performed is 25.

XIII. Program Managers (GRP022). These 38 members are involved in the acquisition, upgrading, or operation of computer systems. They perform such tasks as evaluate contractor work standards, evaluate contractor equipment changes, evaluate new installations or operation of computer systems, and determine budget or financial requirements. These predominately 7- and 9-skill level program managers are assigned to a number of major command headquarters and intermediate headquarters levels.

XIV. Logistics Monitors (GRP045). Members of this group perform tasks involving surveillance of the supply activities which support electronic computer systems. Over 50 percent of their time is devoted to administrative and supply functions. Typical tasks for these 15 monitors include review priority monitor reports, plan inventories of

supplies, materiel, or turn-in of excess property, and review requisitions or authorizations for materiel or turn-in of excess property.

XV. Deployment Computer Repairmen (GRP052). The 55 members of the Deployment Computer Repairmen group devote 60 percent of their job time to maintaining facilities and work areas. The average number of tasks performed is very low (17) which may be a factor in their expressed low job interest. Many of the personnel are assigned to tactical control squadrons in TAC. The predominate thrust of their work appears to be the maintenance of deployable equipment.

XVI. Computer Systems Controllers (GRP067). These individuals are principally involved in maintaining a visual watch during computer system or computer equipment operations. The majority of these respondents are assigned to communication groups in AFCS. The average number of tasks performed is low (21) which may account for their expressed low job interest. Typical tasks are interpret fault indicators, maintain visual watch during operation of line units, maintain visual watch during operation of digital data modems, and maintain visual watch during operation of systems maintenance consoles.

XVII. Operational Test NCOs (GRP049). This group of eight members spends over 50 percent of their job time running operational tests on computer systems or computer related equipment. The average number of tasks performed is low, with a correspondingly low job interest. Six of the eight members of this group are 5-skill level personnel. Typical tasks are load or operate utility computer programs, operate operators' consoles, operate data processors, and perform operational tests of data processor systems.

XVIII. Job Controllers (GRP041). This is a small group whose members perform only a few tasks which are all related to job control. Most of these respondents are assigned to communications groups or squadrons within AFCS. Typical tasks are initiate or review job control document forms, initiate or review master station log forms, and initiate or review schedule of technician availability forms.

XIX. Computer Equipment Installers (GRP008). The 15 members in this group specialize in the installation of computer systems and associated equipment. Eighty-seven percent are assigned to AFCS and the majority are 5-skill level airmen. Typical tasks are install or run cable or wiring for equipment installation, drill holes for installation mountings, remove or install electrical wiring, and inventory equipment materials or supplies for installation of computer systems.

ANALYSIS OF DAFSC GROUPS

Job data and background data for DAFSC groups are also examined as part of each occupational analysis. This analysis allows for the identification of skill level differences and aids in the analysis of career ladder documents, such as the AFR 39-1 specialty descriptions and the specialty training standard.

Table 2 shows the percent time spent by skill level groups on various duties in the job inventory. As would be expected, time spent performing technical tasks is less for the higher skill levels. While 3- and 5-skill level personnel spend less than 10 percent of their time on supervisory functions, 7-skill level personnel spend 31 percent of their time on these functions. There is again a marked difference in the time spent on supervisory functions between the 7- and 9-skill level, with the 9-skill level personnel spending over half of their duty time on supervisory or managerial functions. It is interesting to note that the 5-, 7-, and 9-skill level personnel in this career ladder spend appreciably less time on supervisory functions than do like personnel in most other career ladders.

Skill Level Descriptions

Both the 3- and 5-skill level DAFSC groups perform highly similar jobs. Most of their tasks are relatively simple, such as setting up or operating oscilloscopes, removing or installing air filters, cleaning computer printers, operating input/output equipment, and performing visual inspections of cables, cable troughs, or connector air ducts. Table 3 shows those tasks which best differentiate between 3- and 5-skill level respondents and also indicates that 3-skill level respondents are performing nearly all the tasks that a 5-skill level respondents performs.

At the 7-skill level, many of the same technical tasks performed by 5-skill level personnel are also performed, although lower percentages of 7-levels are performing the tasks. Typical of these technical tasks are clean electro-mechanical subassemblies or components, remove or install electrical wiring, and set up or operate oscilloscopes. For the most part, 7-skill level members spend more of their time (31 percent) on administrative functions. They are primarily involved with initiating or reviewing forms and records, and training subordinate personnel. Table 4 shows those tasks which best differentiate between 5- and 7-skill level incumbents.

The differences between 7- and 9-skill level respondents are portrayed in Table 5. Respondents at the 9-skill level typically are involved in supervisory or managerial tasks nearly exclusively, which is not the case with 7-skill level personnel. Typical of 9-skill level tasks are reviewing or indorsing airman performance reports, special

awards, or personnel actions; evaluating maintenance of computer systems or associated equipment; initiating or reviewing routing and review of quality control reports; and conducting policy meetings.

TABLE 2
PERCENT TIME SPENT ON DUTIES BY 305X4 DAFSC GROUPS

DUTIES	DAFSC 30534 (N=156)	DAFSC 30554 (N=966)	DAFSC 30574 (N=626)	DAFSC 30594 (N=61)
A PLANNING AND ORGANIZING	1	2	7	15
B DIRECTING AND IMPLEMENTING	1	2	8	18
C EVALUATING	1	2	9	19
D TRAINING	1	3	7	5
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	6	7	19	28
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	16	12	7	1
G INSTALLING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	3	2	1	1
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	11	11	8	3
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	22	23	13	5
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	11	12	8	1
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	8	8	4	1
L MODIFYING/RECONFIGURING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	1	2	1	1
M MAINTAINING AND CALIBRATING TEST EQUIPMENT	6	5	2	-*
N MAINTAINING FACILITIES AND WORK AREAS	13	9	5	1

* A dash (-) indicates less than one percent time spent performing tasks in this duty.

TABLE 3
TASKS WHICH BEST DIFFERENTIATE BETWEEN THE 3- AND 5-SKILL LEVELS FOR DAFSC 305X4

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>		
	<u>DAFSC (N=156)</u>	<u>DAFSC (N=966)</u>	<u>DIFFERENCE</u>
D10 DEMONSTRATE USE OF EQUIPMENT OR TOOLS	13	41	-28
J12 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	22	48	-26
I42 CLEAN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	16	38	-22
I71 INSPECT COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	17	39	-22
J9 ISOLATE MALFUNCTIONS WITHIN CENTRAL COMPUTERS	19	40	-21
D4 CONDUCT ON-THE-JOB TRAINING (OJT) PROGRAMS	6	26	-20
K22 INSPECT COMPUTER EQUIPMENT CORE MEMORY SUBASSEMBLIES OR COMPONENTS	12	32	-20
I38 CLEAN CENTRAL COMPUTERS	20	39	-19
I5 ADJUST OR ALIGN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	18	37	-19
E26 INITIATE OR REVIEW ON-THE-JOB TRAINING RECORD-CONTINUATION SHEET FORMS (AF FORM 623a)	6	24	-18
H2 LOAD OR OPERATE UTILITY COMPUTER PROGRAMS	28	46	-18
E2 ANNOTATE OR REVIEW ON-THE-JOB TRAINING RECORD FORMS (AF FORM 623)	7	25	-18
K4 ADJUST OR ALIGN COMPUTER EQUIPMENT CORE MEMORY SUBASSEMBLIES OR COMPONENTS	12	30	-18
K34 REMOVE OR INSTALL COMPUTER EQUIPMENT CORE MEMORY SYSTEMS COMPONENTS	15	33	-18

TABLE 4
TASKS WHICH BEST DIFFERENTIATE BETWEEN THE 5- AND 7-SKILL LEVELS FOR DAFSC 305X4

TASKS	PERCENT MEMBERS PERFORMING		
	DAFSC 30554 (N=966)	DAFSC 30574 (N=626)	DIFFERENCE
E3 DRAFT CORRESPONDENCE OR REPORTS	13	58	-32
E45 PREPARE APR OR SUPERVISORY EVALUATION RECORDS	17	61	-44
C23 REVIEW CORRESPONDENCE	10	49	-39
E26 INITIATE OR REVIEW ON-THE-JOB TRAINING RECORD-CONTINUATION SHEET FORMS (AF FORM 623a)	24	63	-39
E2 ANNOTATE OR REVIEW ON-THE-JOB TRAINING RECORD FORMS (AF FORM 623)	25	62	-37
E21 INITIATE OR REVIEW JOB PROFICIENCY GUIDE CONTINUATION SHEET FORMS (AF FORM 797)	16	52	-36
D11 DETERMINE INDIVIDUAL TRAINING NEEDS	17	53	-36
A19 SCHEDULE SHIFTS OR WORK ASSIGNMENTS	13	49	-36
C20 REVIEW OR FOLLOW-UP INSPECTION REPORTS	12	46	-34
F2 CLEAN OR TREAT AIR FLOW FILTERS	79	44	+35
F6 REMOVE OR INSTALL AIR FLOW FILTERS	78	43	+35
F3 LUBRICATE MECHANICAL OR ELECTRO-MECHANICAL EQUIPMENT	75	43	+32

TABLE 5

TASKS WHICH BEST DIFFERENTIATE BETWEEN THE 7- AND 9-SKILL LEVELS FOR DAFSC 305X4

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>		
	<u>DAFSC</u>	<u>DAFSC</u>	<u>DIFFERENCE</u>
	<u>30574 (N=626)</u>	<u>30594 (N=61)</u>	
C21 REVIEW OR INDORSE AIRMAN PERFORMANCE REPORTS (APR), SPECIAL AWARDS, OR PERSONNEL ACTIONS	37	84	-47
B1 ASSIGN PERSONNEL TO DUTY POSITIONS	35	79	-44
B4 CONDUCT POLICY MEETINGS	22	66	-44
E4 DRAFT OR REVIEW ASSIGNMENT/PERSONNEL ACTION FORMS (AF FORM 2095)	31	74	-43
B24 SUPERVISE ELECTRONIC COMPUTER SYSTEMS TECHNICIANS (AFSC 30574)	35	77	-42
N2 CLEAN WORK AREAS	63	13	+50
J2 ANALYZE LOGIC DIAGRAMS	57	11	+46
F19 SOLDER ELECTRICAL CONNECTORS, CONDUCTORS, OR COMPONENTS	52	7	+45
F16 SET UP OR OPERATE MULTIMETERS	58	13	+45
F18 SET UP OR OPERATE OSCILLOSCOPES	60	16	+44
J3 ANALYZE PRINTOUTS	55	11	+44
J1 ANALYZE ELECTRONIC SCHEMATIC DIAGRAMS	53	10	+43
F20 TIGHTEN SYSTEM HARDWARE SUCH AS DOOR HINGES OR LATCHES	47	7	+40
F6 REMOVE OR INSTALL AIR FLOW FILTERS	43	3	+40
J5 INTERPRET FAULT INDICATORS	56	16	+40

ANALYSIS OF ACTIVE FEDERAL MILITARY SERVICE (AFMS) GROUPS

Table 6 reflects the percent time spent on the various duties for respondents grouped by enlistment periods. Trends similar to those for DAFSC groups were noted.

First Enlistment Groups

Percent time spent on various tasks by the first job group (defined as job incumbents with 9-33 months AFMS) is nearly identical to the first enlistment group, so only the latter is displayed in Table 6. Respondents spend the majority of their time on technical tasks involving maintaining in-place electronic computer systems and related equipment, performing general computer systems maintenance, monitoring and operating electronic computer systems, and troubleshooting in-place electronic computer systems and related equipment. The total number of tasks performed is relatively low and these tasks do not involve the more complex work performed by subsequent enlistment groups. Table 7 portrays tasks performed by 70 percent or more of 305X4 personnel in their first job assignments.

Subsequent Enlistment Groups

As shown in Table 6, respondents in the first three enlistment periods spent the majority of their job time on technical tasks (82 percent). At the fourth enlistment, respondents spend only 74 percent of their job time on technical duties. This drops to 54 percent by the sixth enlistment.

TABLE 6
PERCENT TIME SPENT ON DUTIES BY AFMS GROUPS
305X4

DUTY	MONTHS ACTIVE FEDERAL MILITARY SERVICE				^{24G*} (N=152)
	1-48 (N=475)	49-96 (N=465)	97-144 (N=266)	145-192 (N=242)	
A PLANNING AND ORGANIZING	1	2	4	6	9
B DIRECTING AND IMPLEMENTING	1	2	5	7	10
C EVALUATING	1	2	4	7	11
D TRAINING	1	3	5	6	8
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	5	7	12	17	22
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	14	12	10	8	6
G INSTALLING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	2	2	2	1	1
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	12	11	9	9	7
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	24	23	20	16	10
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	13	11	10	8	6
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	9	8	6	5	3
L MODIFYING/RECONFIGURING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	1	2	2	1	1
M MAINTAINING AND CALIBRATING TEST EQUIPMENT	6	6	3	3	2
N MAINTAINING FACILITIES AND WORK AREAS	11	9	8	6	4

TABLE 7
TASKS PERFORMED BY 70% OR MORE OF 305X4 PERSONNEL IN THEIR FIRST JOB ASSIGNMENT
(9-33 MONTHS TAFMS)
(N=273)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING</u>
F18 SET UP OR OPERATE OSCILLOSCOPES	87
F16 SET UP OR OPERATE MULTIMETERS	87
F19 SOLDER ELECTRICAL CONNECTORS, CONDUCTORS, OR COMPONENTS	83
J5 INTERPRET FAULT INDICATORS	79
F6 REMOVE OR INSTALL AIR FLOW FILTERS	79
F11 SET UP OR OPERATE DIFFERENTIAL VOLTMETERS	78
F2 CLEAN OR TREAT AIR FLOW FILTERS	77
J2 ANALYZE LOGIC DIAGRAMS	75
F3 LUBRICATE MECHANICAL OR ELECTRO-MECHANICAL EQUIPMENT	75
F11 APPLY CORROSION CONTROL PREVENTIVES SUCH AS PAINTS, SCRAPPING, OR PERFORMING HUMIDITY CHECKS	73
J3 ANALYZE PRINTOUTS	73
J1 ANALYZE ELECTRONIC SCHEMATIC DIAGRAMS	73
F20 TIGHTEN SYSTEM HARDWARE SUCH AS DOOR HINGES OR LATCHES	72
H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS	71

ANALYSIS OF CONUS/OVERSEAS GROUPS

Task performance differences between DAFSC 30554 personnel assigned within the CONUS and those overseas appear to be of some significance. Table 8 depicts 17 tasks which are performed by higher percentages of overseas personnel. The majority of these tasks are related to maintaining in-place electronic computer systems and related equipment. Seven of the 17 tasks are dedicated to magnetic tape or magnetic disc units which may reflect the widespread use of these units by Security Services personnel stationed overseas.

TABLE 8

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 30554 RESPONDENTS
BY CONUS AND OVERSEAS GROUPS
(PERCENT MEMBERS PERFORMING)

<u>TASKS</u>	<u>CONUS (N=870)</u>	<u>OVERSEAS (N=94)</u>	<u>DIFFERENCE</u>
I67 INSPECT CENTRAL COMPUTERS	31	59	-28
I71 INSPECT COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	36	64	-28
I46 CLEAN COMPUTER EQUIPMENT MAGNETIC DISC UNITS	7	34	-27
I11 ADJUST OR ALIGN COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	42	68	-26
I42 CLEAN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	36	61	-25
I74 INSPECT COMPUTER EQUIPMENT MAGNETIC DISC UNITS	7	31	-24
I38 CLEAN CENTRAL COMPUTERS	37	61	-24
I48 CLEAN COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	44	67	-23
I4 ADJUST OR ALIGN COMPUTER EQUIPMENT CARD READERS/CARD PUNCHERS	21	44	-23
I70 INSPECT COMPUTER EQUIPMENT CARD READERS/CARD PUNCHERS	20	43	-23
I95 PERFORM OPERATIONAL TESTS OF COMMUNICATION PROCESSOR SYSTEMS	19	42	-23
I9 ADJUST OR ALIGN COMPUTER EQUIPMENT MAGNETIC DISC UNITS	7	30	-23
I76 INSPECT COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	40	63	-23
J9 ISOLATE MALFUNCTIONS WITHIN CENTRAL COMPUTERS	38	61	-23
H2 LOAD OR OPERATE UTILITY COMPUTER PROGRAMS	44	66	-22
J15 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT MAGNETIC DISC UNITS	8	28	-20
I41 CLEAN COMPUTER EQUIPMENT CARD READERS/CARD PUNCHERS	24	44	-20

ANALYSIS OF TASK DIFFICULTY

From a listing of airmen identified for the 305X4 job survey, 120 incumbents in the 7- and 9-skill levels from various commands and locations were selected to rate task difficulty. Tasks were rated on a nine-point scale from extremely low to extremely high difficulty, with difficulty defined as the length of time it takes an average incumbent to learn to do the task. Interrater agreement among the 87 raters who returned booklets was .97. Rating were adjusted so that tasks of average difficulty have ratings of 5.00.

A listing of representative tasks rated above average in difficulty is given in Table 9. Generally, tasks rated as most difficult are supervisory tasks and those related to maintaining in-place electronic computer systems and related equipment. This is particularly true of tasks involving the adjustment or alignment of certain equipment, or the isolation of malfunctions. Other tasks rated above average were normally those that require the developing, planning, analyzing, and evaluating of systems, diagrams, or schematics.

Table 10 provides a listing of representative tasks rated below average in difficulty. These tasks are generally clerical, routine inspections, or maintenance tasks such as cleaning central computer maintenance consoles.

TABLE 9
REPRESENTATIVE TASKS RATED ABOVE AVERAGE IN DIFFICULTY

TASK	DIFFICULTY INDEX	PERCENT MEMBERS PERFORMING	
		6	34
I154	WRITE OR UPDATE COMPUTER MAINTENANCE PROGRAMS	7.37	6
I7	ADJUST OR ALIGN COMPUTER EQUIPMENT KEYBOARDS	6.72	34
J12	ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	6.59	39
K5	ADJUST OR ALIGN COMPUTER EQUIPMENT KEYBOARD SUBASSEMBLIES OR COMPONENTS	6.53	27
J1	ANALYZE ELECTRONIC SCHEMATIC DIAGRAMS	6.51	3
J24	ISOLATE MALFUNCTIONS WITHIN DATA PROCESSORS	6.41	26
I11	ADJUST OR ALIGN COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	6.38	37
A10	PLAN INSTALLATION, MAINTENANCE, OR INSPECTION OF COMPUTER SYSTEMS EQUIPMENT	6.37	22
I5	ADJUST OR ALIGN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS	6.36	30
I13	ADJUST OR ALIGN COMPUTER EQUIPMENT PRINTERS	6.28	46
J2	ANALYZE LOGIC DIAGRAMS	6.24	68
G15	PERFORM OPERATIONAL CHECKS OF NEWLY INSTALLED EQUIPMENT	6.16	18
J21	ISOLATE MALFUNCTIONS WITHIN COMPUTER MAINTENANCE CONSOLES	6.07	23
E46	PREPARE COST ESTIMATES FOR REPLACEMENT OF SUPPORT EQUIPMENT	6.00	4
B7	DIRECT COMPUTER SYSTEMS EQUIPMENT SERVICE OR REPAIR FUNCTIONS	5.87	26
D11	DETERMINE INDIVIDUAL TRAINING NEEDS	5.69	30
C21	REVIEW OR ENDORSE AIRMAN PERFORMANCE REPORTS (APR), SPECIAL AWARDS, OR PERSONNEL ACTIONS	5.56	20
J6	INTERPRET TEST EQUIPMENT INDICATOR LIGHTS	5.32	53
H27	OPERATE DATA PROCESSORS	5.28	24
F18	SET UP OR OPERATE OSCILLOSCOPES	5.20	74
M87	SET UP OR OPERATE CARD TESTERS	5.13	31
I77	INSPECT COMPUTER EQUIPMENT PRINTERS	5.01	46

TABLE 10
REPRESENTATIVE TASKS RATED BELOW AVERAGE IN DIFFICULTY

TASK	DIFFICULTY INDEX	PERCENT MEMBERS PERFORMING	
		25	37
C20 REVIEW OR FOLLOW-UP INSPECTION REPORTS	4.99	4.99	4.99
I76 INSPECT COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	4.99	4.99	4.84
I144 REMOVE OR INSTALL SYSTEMS MAINTENANCE CONSOLE ASSEMBLIES	4.84	4.84	8
K27 INSPECT COMPUTER EQUIPMENT MAGNETIC TAPE UNIT SUBASSEMBLIES OR COMPONENTS	4.77	4.77	30
H2 LOAD OR OPERATE UTILITY COMPUTER PROGRAMS	4.43	4.43	39
E20 INITIATE OR REVIEW JOB CONTROL DOCUMENT FORMS (AF FORM 2445)	4.39	4.39	10
I44 CLEAN COMPUTER EQUIPMENT KEYBOARDS	4.21	4.21	37
L15 UPDATE PLANT-IN-PLACE RECORDS FOR MODIFICATIONS OR RECONFIGURATIONS	4.04	4.04	8
I48 CLEAN COMPUTER EQUIPMENT MAGNETIC TAPE UNITS	3.91	3.91	36
E33 INITIATE OR REVIEW SCHEDULE OF TECHNICIAN AVAILABILITY FORMS (AF FORM 2446)	3.76	3.76	20
E23 INITIATE OR REVIEW MASTER STATION LOG FORMS (DD FORM 1753)	3.57	3.57	16
M26 CLEAN TEST EQUIPMENT	3.41	3.41	39
F4 PERFORM VISUAL INSPECTIONS OF CABLES, CABLE TROUGHS, OR CONNECTOR AIR DUCTS	3.26	3.26	61
I51 CLEAN COMPUTER MAINTENANCE CONSOLES	3.26	3.26	26
L10 PACK OR UNPACK EQUIPMENT MODIFICATION OR RECONFIGURATION KITS	3.11	3.11	16
E9 FILE CORRESPONDENCE	2.56	2.56	27
F6 REMOVE OR INSTALL AIR FLOW FILTERS	2.23	2.23	62

COMPARISON OF CAREER LADDER DOCUMENTS TO SURVEY DATA

AFR 39-1 Specialty Descriptions

Survey results were compared to the AFR 39-1 job descriptions for each skill level. These descriptions are intended to give a broad overview of the duties and tasks required to be performed by the various skill level personnel. The 5-, 7-, and 9-skill level job descriptions generally reflect an accurate picture of the jobs performed by survey respondents.

Specialty Training Standard (STS)

A review of STS 305X4 (for AFSC 30534/54/74), dated September 1977, was made by comparing STS items to survey data. Subject-matter specialists at the Technical Training Center, Keesler AFB MS, matched inventory tasks to specific STS paragraphs.

Overall, the STS provided excellent coverage of tasks performed by respondents to the survey.

COMPARISON OF CURRENT SURVEY TO 1972 SURVEY

The results of this survey were compared to those of Occupational Survey Report (OSR) AFPT 90-305-075, dated 1 December 1972. Although the number of groups reported in these two studies varied somewhat, the job groups discussed in this report are in many instances similar to those reported earlier. Both surveys showed the career ladder to be relatively homogeneous. The jobs performed by the various skill levels have changed very little since the last report.

Job clusters among respondents performing technical tasks continued to be command equipment oriented. Specialization was related to and directed toward computer systems equipment, such as digital displays, printers, card readers/card punches, and keyboards. This orientation is particularly evident in the largest cluster, computer systems repairmen (GRP123) but also manifests itself throughout the sample.

SUMMARY OF BACKGROUND INFORMATION

Each USAF Job Inventory contains a background information section in which the respondent reports information about himself and his job. This information for Electronic Computer Systems respondents is summarized in the following paragraphs.

Table 11 summarizes job interest and perceived utilization of talents and training. Generally, the findings discussed below are fairly consistent across all job groups identified in the career ladder structure analysis.

Sixty-seven percent of the first enlistment group indicated they found their jobs interesting. This relates well to the 65 percent for respondents in their first enlistment in 23 career ladders surveyed in 1976. Job interest varied from a low of 67 percent for the first enlistment group (1-48 months AFMS) to a high of 77 percent for the sixth enlistment group (240+ months AFMS).

Seventy-two percent of first enlistment respondents indicated that their talents were being used fairly well or better. This compares very favorably to the 71 percent for 21 career ladders reported in 1976. Sixty-eight percent of first enlistment respondents indicated that their training was being used fairly well or better. This percentage is slightly below the 79 percent for incumbents in 21 career ladders surveyed in 1976. Perceived utilization of training varied little between enlistment groups. The first enlistment group had a low of 68 percent and the sixth enlistment group had a high of 72 percent.

Table 12 show the types of computers maintained by DAFSC 305X4 airmen in the total sample and in the first enlistment period.

Table 13 shows by DAFSC, how respondents entered the Electronic Computer Systems career ladder. On the average, 55 percent completed resident technical training.

TABLE 11
JOB INTEREST AND UTILIZATION OF TALENTS AND TRAINING BY AFMS GROUPS
(PERCENT MEMBERS RESPONDING)

JOB INTEREST	MONTHS ACTIVE FEDERAL MILITARY SERVICE				193-246 MOS (N=239)	240+ MOS (N=132)
	1-48 MOS (N=475)	49-96 MOS (N=465)	97-144 MOS (N=266)	145-192 MOS (N=242)		
<u>I FIND MY JOB:</u>						
DULL	13	14	15	11	8	11
SO-SO	19	15	14	15	16	10
INTERESTING	67	66	69	70	72	77
NOT REPORTED	1	5	2	4	4	2
<u>PERCEIVED UTILIZATION OF TALENTS</u>						
MY JOB UTILIZES MY TALENTS:						
VERY LITTLE OR NOT AT ALL	28	25	23	22	19	21
FAIRLY WELL OR BETTER	72	75	75	77	79	78
NOT REPORTED	0	2	1	1	2	1
<u>PERCEIVED UTILIZATION OF TRAINING</u>						
MY JOB UTILIZES MY TRAINING:						
VERY LITTLE OR NOT AT ALL	31	27	32	28	29	27
FAIRLY WELL OR BETTER	68	72	67	72	71	72
NOT REPORTED	1	1	1	0	0	1

TABLE 12
TYPES OF COMPUTERS MAINTAINED BY DAFSC 305X4 PERSONNEL
(PERCENT MEMBERS RESPONDING)

<u>COMPUTER</u>	<u>TOTAL SAMPLE (N=1820)</u>	<u>1st TERM (N=475)</u>
AN/FYQ-4	20	29
AN/FYQ-47	10	10
AN/FSQ-7	10	10
AN/FYQ-7	6	8
AN/FYQ-5	5	7
AN/FYQ-6	5	7
1620	5	5
AN/FYQ-8	4	5
ANGSA51	3	5
AN/FYQ-3	3	5
1218	3	1
AN/FYA-10	2	1
AN/FYQ-2	1	2
OTHER	<u>23</u>	<u>5</u>
	<u>100</u>	<u>100</u>

TABLE 13

METHOD OF ASSIGNMENT TO DAFSC 305X4 CAREER LADDER
(PERCENT MEMBERS RESPONDING)

	TOTAL SAMPLE <u>(N=1,820)</u>	30534 <u>(N=156)</u>	30554 <u>(N=966)</u>	30574 <u>(N=626)</u>	30594 <u>(N=61)</u>
COMPLETED RESIDENT TECHNICAL TRAINING	55	74	65	37	28
RECLASSIFIED WITHOUT COMPLETING TECHNICAL TRAINING OR OUT	1	1	-	1	-
DIRECTED DUTY ASSIGNMENT (DDA) FROM BASIC TRAINING TO OJT WITHOUT BYPASS TEST	1	-	1	1	-
DDA FROM BASIC TRAINING BY BYPASS TEST	1	1	1	-	-
CONVERTED FROM ANOTHER AF SPECIALTY WITHOUT TRAINING BY CLASSIFICATION BOARD ACTION	1	1	1	3	-
RETRAINED FROM ANOTHER SPECIALTY	26	13	19	38	57
REENLISTED AFTER PRIOR SERVICE IN USAF OR FROM ANOTHER BRANCH OF SERVICE	6	1	4	10	5
NOT ASSIGNED TO MY CAREER LADDER BY ANY OF THE ABOVE METHODS	3	5	4	2	5
OTHER	6	4	5	8	5

TABLE 14
REENLISTMENT INTENTIONS

	305X4		
	<u>FIRST TERM</u>	<u>SECOND TERM</u>	<u>CAREER</u>
DO YOU PLAN TO REENLIST			
NO, OR PROBABLY NO	62	42	26
YES, OR PROBABLY YES	37	57	73
NO RESPONSE	1	1	1

DISCUSSION

The Electronic Computer Systems career ladder is fairly homogeneous in that most members group into one basic job, that of repairmen. This is particularly true for members in their first and second enlistment. As reflected in the CAREER LADDER STRUCTURE section of this report, tasks performed by career ladder members tend to specialize around computer related or associated equipment rather than around a total system. Thus, members tend to work on such items as tape drives, visual displays, printers, keyboards, card punches/readers, and memory devices rather than the total system. Training covers the total system because of the apparent difficulty in determining the exact computer related equipment an individual will be called to work upon at any given base location or duty assignment.

The career ladder structure supporting documents (AFR 39-1 and STS) were found to be accurate in describing the duties and tasks performed by career ladder members. The trend toward associated equipment specialization was reflected in both documents and was clearly supportable by survey data.

APPENDIX A

GROUP ID NUMBER AND TITLE: GRP123 - COMPUTER SYSTEMS REPAIRMEN

NUMBER IN GROUP: 866

PERCENT OF SAMPLE: 48%

MAJOR COMMAND DISTRIBUTION: AFCS (46%), ADC (34%), TAC (6%), AFSC (4%), OTHER (10%)

LOCATION: CONUS (89%), OVERSEAS (11%)

DAFSC DISTRIBUTION: 30534 (10%), 30554 (72%), 30574 (19%)

AVERAGE GRADE: 4.4

AVERAGE TIME IN CAREER FIELD: 53 MONTHS

AVERAGE TIME IN SERVICE: 79 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 36%

AMOUNT OF SUPERVISION: 29% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (10%), SO-SO (17%), INTERESTING (73%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 18%
FAIRLY WELL OR BETTER 82%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 20%
FAIRLY WELL OR BETTER 80%

AVERAGE NUMBER OF TASKS PERFORMED: 124

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	29
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	13
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	12
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	11

GROUP DIFFERENTIATING TASKS:

TASKS

- F18 SET UP OR OPERATE OSCILLOSCOPES
- F16 SET UP OR OPERATE MULTIMETERS
- J2 ANALYZE LOGIC DIAGRAMS
- J3 ANALYZE PRINTOUTS
- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH
AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- I49 CLEAN COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP274 - MAGNETIC TAPE UNIT REPAIRMEN

NUMBER IN GROUP: 24

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: USAFSS (67%), TAC (8%), AFCS (8%), ADC (8%), SAC (4%), AFSC (4%)

LOCATION: CONUS (46%), OVERSEAS (54%)

DAFSC DISTRIBUTION: 30554 (75%), 30574 (25%)

AVERAGE GRADE: 5.2

AVERAGE TIME IN CAREER FIELD: 100 MONTHS

AVERAGE TIME IN SERVICE: 136 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 13%

AMOUNT OF SUPERVISION: 67% SUPERVISE AN AVERAGE OF TWO SUBORDINATES

EXPRESSED JOB INTEREST: DULL (8%), SO-SO (21%), INTERESTING (71%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 17%
FAIRLY WELL OR BETTER 83%

AVERAGE NUMBER OF TASKS PERFORMED: 127

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	25
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	12
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	11
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	11

GROUP DIFFERENTIATING TASKS:

TASKS

- F2 CLEAN OR TREAT AIR FLOW FILTERS
- I76 INSPECT COMPUTER EQUIPMENT MAGNETIC TAPE UNITS
- I11 ADJUST OR ALIGN COMPUTER EQUIPMENT MAGNETIC TAPE UNITS
- E22 INITIATE OR REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS
(AFTO FORM 349)
- J19 ISOLATE MALFUNCTIONS WITHIN COMPUTER MAGNETIC TAPE UNITS

GROUP ID NUMBER AND TITLE: GRP654 - CARD READER/CARD PUNCH REPAIRMEN

NUMBER IN GROUP: 53

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: ADC (83%), AFCS (11%), USAFSS (2%)

LOCATION: CONUS (92%), OVERSEAS (8%)

DAFSC DISTRIBUTION: 30534 (6%), 30554 (74%), 30574 (17%)

AVERAGE GRADE: 4.5

AVERAGE TIME IN CAREER FIELD: 50 MONTHS

AVERAGE TIME IN SERVICE: 84 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 38%

AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (6%), SO-SO (17%), INTERESTING (77%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 11%
FAIRLY WELL OR BETTER 89%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 17%
FAIRLY WELL OR BETTER 83%

AVERAGE NUMBER OF TASKS PERFORMED: 128

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	32
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	16
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	14
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	12

GROUP DIFFERENTIATING TASKS:

TASKS

- J19 ISOLATE MALFUNCTIONS WITHIN COMPUTER MAGNETIC TAPE UNITS
- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH AS
PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- J11 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT CARD READERS/CARD
PUNCHERS
- I41 CLEAN COMPUTER EQUIPMENT CARD READERS/CARD PUNCHERS
- I4 ADJUST OR ALIGN COMPUTER EQUIPMENT CARD READERS/CARD PUNCHERS

GROUP ID NUMBER AND TITLE: GRP473 - COMPUTER MEMORY REPAIRMEN

NUMBER IN GROUP: 44

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: AFCS (75%), ADC (16%), AFSC (5%), SAC (5%)

LOCATION: CONUS (98%), OVERSEAS (2%)

DAFSC DISTRIBUTION: 30534 (7%), 30554 (84%), 30574 (9%)

AVERAGE GRADE: 4.1

AVERAGE TIME IN CAREER FIELD: 35 MONTHS

AVERAGE TIME IN SERVICE: 63 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 43%

AMOUNT OF SUPERVISION: 32% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (11%), SO-SO (14%), INTERESTING (75%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 9%
FAIRLY WELL OR BETTER 91%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 14%
FAIRLY WELL OR BETTER 86%

AVERAGE NUMBER OF TASKS PERFORMED: 142

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	31
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	13
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	13
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	12

GROUP DIFFERENTIATING TASKS:

TASKS

- I71 INSPECT COMPUTER EQUIPMENT CORE MEMORY SYSTEMS
- I10 ADJUST OR ALIGN COMPUTER EQUIPMENT MAGNETIC DRUM UNITS
- J12 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT CORE MEMORY SYSTEMS
- K22 INSPECT COMPUTER EQUIPMENT CORE MEMORY SUBASSEMBLIES OR COMPONENTS

GROUP ID NUMBER AND TITLE: GRP366 - COMPUTER PRINTER REPAIRMEN

NUMBER IN GROUP: 32

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: ADC (63%), AFCS (22%), ATC (3%), TAC (3%), USAFE (3%), USAFSS (3%)

LOCATION: CONUS (75%), OVERSEAS (25%)

DAFSC DISTRIBUTION: 30554 (72%), 30574 (28%)

AVERAGE GRADE: 4.9

AVERAGE TIME IN CAREER FIELD: 72 MONTHS

AVERAGE TIME IN SERVICE: 109 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 19%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (13%), SO-SO (16%), INTERESTING (71%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

AVERAGE NUMBER OF TASKS PERFORMED: 93

TIME SPENT ON DUTIES:

DUTY	AVERAGE TIME SPENT <u>BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	43
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	19
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	12
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	12

GROUP DIFFERENTIATING TASKS:

TASKS

- I49 CLEAN COMPUTER EQUIPMENT PRINTERS
- F3 LUBRICATE MECHANICAL OR ELECTRO-MECHANICAL EQUIPMENT
- I13 ADJUST OR ALIGN COMPUTER EQUIPMENT PRINTERS
- J17 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP608 - COMPUTER KEYBOARD REPAIRMEN

NUMBER IN GROUP: 38

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: ADC (76%), MAC (5%), SAC (5%), USAFSS (3%), ATC (3%), AFCS (3%)

LOCATION: CONUS (95%), OVERSEAS (5%)

DAFSC DISTRIBUTION: 30534 (8%), 30554 (76%), 30574 (16%)

AVERAGE GRADE: 4.5

AVERAGE TIME IN CAREER FIELD: 39 MONTHS

AVERAGE TIME IN SERVICE: 82 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 16%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (21%), SO-SO (21%), INTERESTING (58%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 32%
FAIRLY WELL OR BETTER 68%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 37%
FAIRLY WELL OR BETTER 63%

AVERAGE NUMBER OF TASKS PERFORMED: 99

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	29
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	16
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	13
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	12

GROUP DIFFERENTIATING TASKS:

TASKS

- I44 CLEAN COMPUTER EQUIPMENT KEYBOARDS
- I7 ADJUST OR ALIGN COMPUTER EQUIPMENT KEYBOARDS
- H22 MAINTAIN VISUAL WATCH DURING OPERATION OF PRINTERS
- H6 MAINTAIN VISUAL WATCH DURING OPERATION OF CENTRAL COMPUTERS
- K18 CLEAN MECHANICAL SUBASSEMBLIES OR COMPONENTS

GROUP ID NUMBER AND TITLE: GRP458 - OPERATOR CONSOLE REPAIRMEN

NUMBER IN GROUP: 42

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (52%), AFCS (31%), ADC (7%), USAFE (5%), USAFSS (2%), AFSC (2%)

LOCATION: CONUS (83%), OVERSEAS (17%)

DAFSC DISTRIBUTION: 30534 (12%), 30554 (74%), 30574 (14%)

AVERAGE GRADE: 4.2

AVERAGE TIME IN CAREER FIELD: 49 MONTHS

AVERAGE TIME IN SERVICE: 82 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 48%

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (5%), SO-SO (21%), INTERESTING (74%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 10%
FAIRLY WELL OR BETTER 90%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 14%
FAIRLY WELL OR BETTER 86%

AVERAGE NUMBER OF TASKS PERFORMED: 103

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	33
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	15
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	14
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	14

GROUP DIFFERENTIATING TASKS:

TASKS

- I52 CLEAN COMPUTER OPERATORS' CONSOLES
- J4 ANALYZE VISUAL DISPLAYS
- J1 ANALYZE ELECTRONIC SCHEMATIC DIAGRAMS
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS

GROUP ID NUMBER AND TITLE: GRP265 - COMPUTER DISPLAY REPAIRMEN

NUMBER IN GROUP: 33

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: ADC (55%), AFCS (18%), TAC (18%), AFSC (3%)
SAC (3%), USAFSS (3%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30534 (12%), 30554 (67%), 30574 (21%)

AVERAGE GRADE: 4.1

AVERAGE TIME IN CAREER FIELD: 56 MONTHS

AVERAGE TIME IN SERVICE: 78 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 46%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (9%), SO-SO (6%), INTERESTING (85%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 9%
FAIRLY WELL OR BETTER 91%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 18%
FAIRLY WELL OR BETTER 82%

AVERAGE NUMBER OF TASKS PERFORMED: 83

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	28
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	26
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	15
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	13

GROUP DIFFERENTIATING TASKS:

TASKS

- H28 OPERATE DISPLAY EQUIPMENT
- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH
AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- I17 ADJUST OR ALIGN CRT COMPUTER MAINTENANCE CONSOLES
- I2 ADJUST OR ALIGN CATHODE-RAY TUBE (CRT) COMMON USER DISPLAY DEVICES

GROUP ID NUMBER AND TITLE: GRP757 - COMPUTER EQUIPMENT PRINTER CREW LEADER

NUMBER IN GROUP: 60

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: AFCS (88%), AFSC (8%), SAC (3%)

LOCATION: CONUS (95%), OVERSEAS (5%)

DAFSC DISTRIBUTION: 30534 (10%), 30554 (53%), 30574 (37%)

AVERAGE GRADE: 4.6

AVERAGE TIME IN CAREER FIELD: 73 MONTHS

AVERAGE TIME IN SERVICE: 103 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 18%

AMOUNT OF SUPERVISION: 59% SUPERVISE AN AVERAGE OF TWO SUBORDINATES

EXPRESSED JOB INTEREST: DULL (8%), SO-SO (20%), INTERESTING (72%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 7%
FAIRLY WELL OR BETTER 93%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 15%
FAIRLY WELL OR BETTER 85%

AVERAGE NUMBER OF TASKS PERFORMED: 186

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	25
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	12
M MAINTAINING AND CALIBRATING TEST EQUIPMENT	9

GROUP DIFFERENTIATING TASKS:

TASKS

- I77 INSPECT COMPUTER EQUIPMENT PRINTERS
- K40 REMOVE OR INSTALL COMPUTER EQUIPMENT PRINTER COMPONENTS
- I13 ADJUST OR ALIGN COMPUTER EQUIPMENT PRINTERS
- K12 ADJUST OR ALIGN COMPUTER EQUIPMENT PRINTER SUBASSEMBLIES
OR COMPONENTS

GROUP ID NUMBER AND TITLE: GRP415 - COMPUTER EQUIPMENT PRINTER REPAIRMEN

NUMBER IN GROUP: 55

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: AFCS (86%), AFSC (7%), SAC (6%), USAFSS (2%)

LOCATION: CONUS (98%), OVERSEAS (2%)

DAFSC DISTRIBUTION: 30534 (29%), 30554 (60%), 30574 (11%)

AVERAGE GRADE: 3.9

AVERAGE TIME IN CAREER FIELD: 34 MONTHS

AVERAGE TIME IN SERVICE: 54 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 53%

AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (15%), SO-SO (16%), INTERESTING (69%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 22%
FAIRLY WELL OR BETTER 78%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 40%
FAIRLY WELL OR BETTER 60%

AVERAGE NUMBER OF TASKS PERFORMED: 69

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	21
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	19
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	13
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	12

GROUP DIFFERENTIATING TASKS:

TASKS

- F3 LUBRICATE MECHANICAL OR ELECTRO-MECHANICAL EQUIPMENT
- I49 CLEAN COMPUTER EQUIPMENT PRINTERS
- I77 INSPECT COMPUTER EQUIPMENT PRINTERS
- K17 CLEAN ELECTRO-MECHANICAL SUBASSEMBLIES OR COMPONENTS

GROUP ID NUMBER AND TITLE: GRP306 - COMPUTER FACILITY MAINTENANCE PERSONNEL

NUMBER IN GROUP: 75

PERCENT OF SAMPLE: 4%

MAJOR COMMAND DISTRIBUTION: ADC (89%), AAC (5%), AFCS (3%), AFSC (3%)

LOCATION: CONUS (92%), OVERSEAS (8%)

DAFSC DISTRIBUTION: 30534 (1%), 30554 (85%), 30574 (12%), 30594 (1%)

AVERAGE GRADE: 4.4

AVERAGE TIME IN CAREER FIELD: 50 MONTHS

AVERAGE TIME IN SERVICE: 74 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 35%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (16%), SO-SO (21%), INTERESTING (63%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 24%
FAIRLY WELL OR BETTER 76%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 16%
FAIRLY WELL OR BETTER 84%

AVERAGE NUMBER OF TASKS PERFORMED: 125

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	22
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	14
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	11

GROUP DIFFERENTIATING TASKS:

TASKS

- F3 LUBRICATE MECHANICAL OR ELECTRO-MECHANICAL EQUIPMENT
- J5 INTERPRET FAULT INDICATORS
- N6 PERFORM ROUTINE INSPECTIONS OF FACILITIES OR WORK AREAS
- I56 CLEAN DATA PROCESSORS
- I97 PERFORM OPERATIONAL TESTS OF DATA PROCESSOR SYSTEMS

GROUP ID NUMBER AND TITLE: GRP421 - COMPUTER SYSTEMS SHIFT SUPERVISORS

NUMBER IN GROUP: 58

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: ADC (69%), AFCS (22%), AAC (3%), AFSC (3%), TAC (2%)

LOCATION: CONUS (97%), OVERSEAS (3%)

DAFSC DISTRIBUTION: 30554 (31%), 30574 (69%)

AVERAGE GRADE: 5.7

AVERAGE TIME IN CAREER FIELD: 101 MONTHS

AVERAGE TIME IN SERVICE: 163 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 2%

AMOUNT OF SUPERVISION: 95% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (10%), SO-SO (5%), INTERESTING (85%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 10%
FAIRLY WELL OR BETTER 90%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 10%
FAIRLY WELL OR BETTER 90%

AVERAGE NUMBER OF TASKS PERFORMED: 178

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	19
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	14
B DIRECTING AND IMPLEMENTING	10

GROUP DIFFERENTIATING TASKS:

TASKS

- E33 INITIATE OR REVIEW SCHEDULE OF TECHNICIAN AVAILABILITY FORMS
(AF FORM 2446)
- E22 INITIATE OR REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS
(AFTO FORM 349)
- B7 DIRECT COMPUTER SYSTEMS EQUIPMENT SERVICE OR REPAIR FUNCTIONS
- I12 ADJUST OR ALIGN COMPUTER EQUIPMENT POWER SYSTEMS
- I97 PERFORM OPERATIONAL TESTS OF DATA PROCESSOR SYSTEMS

GROUP ID NUMBER AND TITLE: GRP437 - COMPUTER SYSTEMS TROUBLESHOOTING SUPERVISORS

NUMBER IN GROUP: 28

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (39%), ADC (21%), AFSC (11%), USAFSS (11%), USAFE (7%), AFCS (7%)

LOCATION: CONUS (79%), OVERSEAS (21%)

DAFSC DISTRIBUTION: 30554 (25%), 30574 (75%)

AVERAGE GRADE: 5.7

AVERAGE TIME IN CAREER FIELD: 122 MONTHS

AVERAGE TIME IN SERVICE: 180 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 4%

AMOUNT OF SUPERVISION: 82% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (14%), SO-SO (11%), INTERESTING (75%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 29%
FAIRLY WELL OR BETTER 71%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

AVERAGE NUMBER OF TASKS PERFORMED: 250

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	28
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	11
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	10

GROUP DIFFERENTIATING TASKS:

TASKS

- J5 INTERPRET FAULT INDICATORS
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS
- E31 INITIATE OR REVIEW REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350)
- I49 CLEAN COMPUTER EQUIPMENT PRINTERS
- J17 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP160 - OPTICAL DISPLAY EQUIPMENT MAINTENANCE PERSONNEL

NUMBER IN GROUP: 21

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: AFCS (29%), ADC (24%), AFSC (19%), AAC (14%), SAC (5%), TAC (5%), USAFE (5%)

LOCATION: CONUS (81%), OVERSEAS (19%)

DAFSC DISTRIBUTION: 30534 (14%), 30554 (67%), 30574 (19%)

AVERAGE GRADE: 4.5

AVERAGE TIME IN CAREER FIELD: 53 MONTHS

AVERAGE TIME IN SERVICE: 81 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 29%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (10%), SO-SO (19%), INTERESTING (71%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 33%
FAIRLY WELL OR BETTER 77%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 29%
FAIRLY WELL OR BETTER 71%

AVERAGE NUMBER OF TASKS PERFORMED: 124

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	37
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	14
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	10

GROUP DIFFERENTIATING TASKS:

TASKS

- J4 ANALYZE VISUAL DISPLAYS
- I2 ADJUST OR ALIGN CATHODE-RAY TUBE (CRT) COMMON USER DISPLAY DEVICES
- I81 INSPECT COMPUTER OPTICAL DISPLAY EQUIPMENT
- I53 CLEAN COMPUTER OPTICAL DISPLAY EQUIPMENT
- J27 ISOLATE MALFUNCTION WITHIN DISPLAY LOGIC EQUIPMENT

GROUP ID NUMBER AND TITLE: GRP127 - COMPUTER SYSTEMS MAINTENANCE SUPERVISORS

NUMBER IN GROUP: 118

PERCENT OF SAMPLE: 6%

MAJOR COMMAND DISTRIBUTION: ADC (47%), AFCS (28%), TAC (11%), AFSC (6%), USAFSS (3%), AAC (3%)

LOCATION: CONUS (92%), OVERSEAS (8%)

DAFSC DISTRIBUTION: 30534 (3%), 30554 (29%), 30574 (67%), 30594 (1%)

AVERAGE GRADE: 5.6

AVERAGE TIME IN CAREER FIELD: 100 MONTHS

AVERAGE TIME IN SERVICE: 160 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 5%

AMOUNT OF SUPERVISION: 85% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (11%), SO-SO (10%), INTERESTING (79%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 20%
FAIRLY WELL OR BETTER 80%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 21%
FAIRLY WELL OR BETTER 79%

AVERAGE NUMBER OF TASKS PERFORMED: 191

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	18
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	16
B DIRECTING AND IMPLEMENTING	9

GROUP DIFFERENTIATING TASKS:

TASKS

- E31 INITIATE OR REVIEW REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350)
- E2 ANNOTATE OR REVIEW ON-THE-JOB TRAINING RECORD FORMS (AF FORM 623)
- B7 DIRECT COMPUTER SYSTEMS EQUIPMENT SERVICE OR REPAIR FUNCTIONS
- I12 ADJUST OR ALIGN COMPUTER EQUIPMENT POWER SYSTEMS
- I13 ADJUST OR ALIGN COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP421 - COMPUTER SYSTEMS SHIFT SUPERVISORS

NUMBER IN GROUP: 58

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: ADC (69%), AFCS (22%), AAC (3%), AFSC (3%), TAC (2%)

LOCATION: CONUS (97%), OVERSEAS (3%)

DAFSC DISTRIBUTION: 30554 (31%), 30574 (69%)

AVERAGE GRADE: 5.7

AVERAGE TIME IN CAREER FIELD: 101 MONTHS

AVERAGE TIME IN SERVICE: 163 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 2%

AMOUNT OF SUPERVISION: 95% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (10%), SO-SO (5%), INTERESTING (85%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 10%
FAIRLY WELL OR BETTER 90%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 10%
FAIRLY WELL OR BETTER 90%

AVERAGE NUMBER OF TASKS PERFORMED: 178

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	19
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	14
B DIRECTING AND IMPLEMENTING	10

GROUP DIFFERENTIATING TASKS:

TASKS

- E33 INITIATE OR REVIEW SCHEDULE OF TECHNICIAN AVAILABILITY FORMS
(AF FORM 2446)
- E22 INITIATE OR REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS
(AFTO FORM 349)
- B7 DIRECT COMPUTER SYSTEMS EQUIPMENT SERVICE OR REPAIR FUNCTIONS
- I12 ADJUST OR ALIGN COMPUTER EQUIPMENT POWER SYSTEMS
- I97 PERFORM OPERATIONAL TESTS OF DATA PROCESSOR SYSTEMS

GROUP ID NUMBER AND TITLE: GRP437 - COMPUTER SYSTEMS TROUBLESHOOTING SUPERVISORS

NUMBER IN GROUP: 28

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (39%), ADC (21%), AFSC (11%), USAFSS (11%), USAFE (7%), AFCS (7%)

LOCATION: CONUS (79%), OVERSEAS (21%)

DAFSC DISTRIBUTION: 30554 (25%), 30574 (75%)

AVERAGE GRADE: 5.7

AVERAGE TIME IN CAREER FIELD: 122 MONTHS

AVERAGE TIME IN SERVICE: 180 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 4%

AMOUNT OF SUPERVISION: 82% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (14%), SO-SO (11%), INTERESTING (75%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 29%
FAIRLY WELL OR BETTER 71%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

AVERAGE NUMBER OF TASKS PERFORMED: 250

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	28
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	11
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	10

GROUP DIFFERENTIATING TASKS:

TASKS

- J5 INTERPRET FAULT INDICATORS
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS
- E31 INITIATE OR REVIEW REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350)
- I49 CLEAN COMPUTER EQUIPMENT PRINTERS
- J17 ISOLATE MALFUNCTIONS WITHIN COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP086 - GENERAL COMPUTER MAINTENANCE REPAIRMEN

NUMBER IN GROUP: 110

PERCENT OF SAMPLE: 6%

MAJOR COMMAND DISTRIBUTION: AFCS (43%), ADC (27%), AFSC (15%), SAC (10%), TAC (3%)

LOCATION: CONUS (98%), OVERSEAS (2%)

DAFSC DISTRIBUTION: 30534 (24%), 30554 (59%), 30574 (16%)

AVERAGE GRADE: 3.9

AVERAGE TIME IN CAREER FIELD: 35 MONTHS

AVERAGE TIME IN SERVICE: 58 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 55%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (16%), SO-SO (17%), INTERESTING (77%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 29%
FAIRLY WELL OR BETTER 71%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 27%
FAIRLY WELL OR BETTER 73%

AVERAGE NUMBER OF TASKS PERFORMED: 59

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	24
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	17
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	13
N MAINTAINING FACILITIES AND WORK AREAS	12

GROUP DIFFERENTIATING TASKS:

TASKS

- F16 SET UP OR OPERATE MULTIMETERS
- N1 CLEAN FACILITIES
- F1 APPLY CORROSION CONTROL PREVENTIVES SUCH AS PAINTS, SCRAPING, OR
PERFORMING HUMIDITY CHECKS
- J5 INTERPRET FAULT INDICATORS

GROUP ID NUMBER AND TITLE: GRP060 - GENERAL FACILITY MAINTENANCE REPAIRMEN

NUMBER IN GROUP: 25

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: AFCS (40%), TAC (24%), ADC (16%), SAC (8%),
AAC (4%), USAFSS (4%)

LOCATION: CONUS (88%), OVERSEAS (12%)

DAFSC DISTRIBUTION: 30534 (40%), 30554 (40%), 30574 (16%)

AVERAGE GRADE: 3.9

AVERAGE TIME IN CAREER FIELD: 41 MONTHS

AVERAGE TIME IN SERVICE: 70 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 48%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (20%), SO-SO (16%), INTERESTING (64%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 36%
FAIRLY WELL OR BETTER 64%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 28%
FAIRLY WELL OR BETTER 72%

AVERAGE NUMBER OF TASKS PERFORMED: 53

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	25
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	21
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	15
N MAINTAINING FACILITIES AND WORK AREAS	14

GROUP DIFFERENTIATING TASKS:

TASKS

- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- H26 OPERATE CENTRAL COMPUTERS
- I52 CLEAN COMPUTER OPERATORS' CONSOLES
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS
- J9 ISOLATE MALFUNCTIONS WITHIN CENTRAL COMPUTERS

GROUP ID NUMBER AND TITLE: GRP055 - COMPUTER SYSTEMS INSTALLERS

NUMBER IN GROUP: 25

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: AFCS (28%), AFSC (24%), ADC (12%), SAC (12%), AFLC (8%), ATC (8%), USAFSS (8%)

LOCATION: CONUS (96%), OVERSEAS (4%)

DAFSC DISTRIBUTION: 30554 (56%), 30574 (40%)

AVERAGE GRADE: 5.0

AVERAGE TIME IN CAREER FIELD: 77 MONTHS

AVERAGE TIME IN SERVICE: 117 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 24%

AMOUNT OF SUPERVISION: 32% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (20%), SO-SO (16%), INTERESTING (64%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 28%
FAIRLY WELL OR BETTER 72%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 36%
FAIRLY WELL OR BETTER 64%

AVERAGE NUMBER OF TASKS PERFORMED: 72

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	19
G INSTALLING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	13
L MODIFYING/RECONFIGURING ELECTRONIC COMPUTER SYSTEMS AND ASSOCIATED EQUIPMENT	13

GROUP DIFFERENTIATING TASKS:

TASKS

- L1 ASSEMBLE, WIRE, OR CONNECT COMPONENT PARTS FOR MODIFICATIONS OR RECONFIGURATIONS
- F7 REMOVE OR INSTALL ELECTRICAL WIRING
- G4 CONNECT COMPONENT PARTS FOR INSTALLATION OTHER THAN SOLDERING
- F20 TIGHTEN SYSTEM HARDWARE SUCH AS DOOR HINGES OR LATCHES
- G11 INSTALL OR RUN CABLE OR WIRING FOR EQUIPMENT INSTALLATION

GROUP ID NUMBER AND TITLE: GRP071 - TEST EQUIPMENT MAINTENANCE REPAIRMEN

NUMBER IN GROUP: 18

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: ADC (94%), OTHER (6%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30554 (72%), 30574 (28%)

AVERAGE GRADE: 4.6

AVERAGE TIME IN CAREER FIELD: 63 MONTHS

AVERAGE TIME IN SERVICE: 113 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 22%

AMOUNT OF SUPERVISION: 28% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: SO-SO (11%), INTERESTING (89%)

PERCEIVED UTILIZATION OF TALENTS: FAIRLY WELL OR BETTER 100%

PERCEIVED UTILIZATION OF TRAINING: FAIRLY WELL OR BETTER 100%

AVERAGE NUMBER OF TASKS PERFORMED: 68

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
M MAINTAINING AND CALIBRATING TEST EQUIPMENT	44
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	21
K PERFORMING BENCH MAINTENANCE OF ELECTRONIC COMPUTER EQUIPMENT	7

GROUP DIFFERENTIATING TASKS:

TASKS

- F11 SET UP OR OPERATE DIFFERENTIAL VOLTMETERS
- M27 INSPECT TEST EQUIPMENT
- M98 SET UP OR OPERATE POWER SUPPLY TESTERS
- M37 ISOLATE MALFUNCTIONS WITHIN ELECTRONIC CIRCUIT PLUG-IN UNITS
- K19 CLEAN ELECTRICAL SUBASSEMBLIES OR COMPONENTS

GROUP ID NUMBER AND TITLE: GRP083 - COMPUTER SYSTEMS MONITORS

NUMBER IN GROUP: 9

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: TAC (56%), AFCS (22%), ADC (11%), AFSC (11%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30574 (78%), 30594 (11%)

AVERAGE GRADE: 6.6

AVERAGE TIME IN CAREER FIELD: 132 MONTHS

AVERAGE TIME IN SERVICE: 197 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 67% SUPERVISE AN AVERAGE OF TWO SUBORDINATES

EXPRESSED JOB INTEREST: DULL (11%), SO-SO (11%), INTERESTING (78%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 11%
FAIRLY WELL OR BETTER 89%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 11%
FAIRLY WELL OR BETTER 89%

AVERAGE NUMBER OF TASKS PERFORMED: 110

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	31
C EVALUATING	12
A PLANNING AND ORGANIZING	10
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	10

GROUP DIFFERENTIATING TASKS:

TASKS

- H6 MAINTAIN VISUAL WATCH DURING OPERATION OF CENTRAL COMPUTERS
- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- A5 DETERMINE SPECIAL TOOL OR EQUIPMENT REQUIREMENTS
- C4 EVALUATE CONTRACTOR EQUIPMENT CHANGES
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS

GROUP ID NUMBER AND TITLE: GRP075 - TECHNICAL TRAINING INSTRUCTORS

NUMBER IN GROUP: 76

PERCENT OF SAMPLE: 4%

MAJOR COMMAND DISTRIBUTION: ATC (95%), USAFSS (4%), TAC (1%)

LOCATION: CONUS (99%), OVERSEAS (1%)

DAFSC DISTRIBUTION: 30554 (53%), 30574 (46%)

AVERAGE GRADE: 5.1

AVERAGE TIME IN CAREER FIELD: 77 MONTHS

AVERAGE TIME IN SERVICE: 125 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 9%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (3%), SO-SO (8%), INTERESTING (89%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 7%
FAIRLY WELL OR BETTER 93%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 4%
FAIRLY WELL OR BETTER 96%

AVERAGE NUMBER OF TASKS PERFORMED: 34

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
D TRAINING	36
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	16
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	14
N MAINTAINING FACILITIES AND WORK AREAS	12

GROUP DIFFERENTIATING TASKS:

TASKS

- D3 CONDUCT FORMAL TECHNICAL COURSES
- D1 ADMINISTER ORAL OR WRITTEN TESTS
- J2 ANALYZE LOGIC DIAGRAMS
- H30 OPERATE INPUT/OUTPUT EQUIPMENT
- N6 PERFORM ROUTINE INSPECTIONS OF FACILITIES OF WORK AREAS

GROUP ID NUMBER AND TITLE: GRP092 - QUALITY CONTROL MONITORS

NUMBER IN GROUP: 54

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: AFCS (35%), ADC (33%), TAC (17%), AFSC (7%), AAC (2%), AFLC (2%), SAC (2%), USAFSS (2%)

LOCATION: CONUS (89%), OVERSEAS (11%)

DAFSC DISTRIBUTION: 30554 (9%), 30574 (80%), 30594 (9%)

AVERAGE GRADE: 6.3

AVERAGE TIME IN CAREER FIELD: 143 MONTHS

AVERAGE TIME IN SERVICE: 203 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 32% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (11%), SO-SO (11%), INTERESTING (78%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 15%
FAIRLY WELL OR BETTER 85%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 22%
FAIRLY WELL OR BETTER 78%

AVERAGE NUMBER OF TASKS PERFORMED: 68

TIME SPENT ON DUTIES:

DUTY	AVERAGE TIME SPENT BY ALL MEMBERS
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	29
C EVALUATING	22
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	16
A PLANNING AND ORGANIZING	10

GROUP DIFFERENTIATING TASKS:

TASKS

- E29 INITIATE OR REVIEW QUALITY CONTROL INSPECTION SUMMARY FORMS
(AF FORM 2420)
- C1 CONDUCT INSPECTIONS OF COMPUTER INSTALLATIONS
- A18 SCHEDULE QUALITY CONTROL INSPECTIONS
- C13 INSPECT FACILITIES OR CONDITION OF SUPPORT EQUIPMENT
- I77 INSPECT COMPUTER EQUIPMENT PRINTERS

GROUP ID NUMBER AND TITLE: GRP089 - COMPUTER SYSTEMS SUPERINTENDENTS/
SUPERVISORS

NUMBER IN GROUP: 155

PERCENT OF SAMPLE: 9%

MAJOR COMMAND DISTRIBUTION: AFCS (45%), ADC (28%), AFSC (9%), TAC (9%),
ATC (5%), USAFSS (3%), SAC (2%)

LOCATION: CONUS (90%), OVERSEAS (10%)

DAFSC DISTRIBUTION: 30554 (2%), 30574 (73%), 30594 (23%)

AVERAGE GRADE: 6.7

AVERAGE TIME IN CAREER FIELD: 129 MONTHS

AVERAGE TIME IN SERVICE: 217 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 89% SUPERVISE AN AVERAGE OF FOUR SUBORDINATES

EXPRESSED JOB INTEREST: DULL (6%), SO-SO (10%), INTERESTING (84%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 17%
FAIRLY WELL OR BETTER 83%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 25%
FAIRLY WELL OR BETTER 75%

AVERAGE NUMBER OF TASKS PERFORMED: 106

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	31
B DIRECTING AND IMPLEMENTING	18
C EVALUATING	15
A PLANNING AND ORGANIZING	12

GROUP DIFFERENTIATING TASKS:

TASKS

- C20 REVIEW OR FOLLOW-UP INSPECTION REPORTS
- E45 PREPARE APR OR SUPERVISORY EVALUATION RECORDS
- E21 INITIATE OR REVIEW JOB PROFICIENCY GUIDE CONTINUATION SHEET
FORMS (AF FORM 797)
- B1 ASSIGN PERSONNEL TO DUTY POSITIONS
- A19 SCHEDULE SHIFTS OR WORK ASSIGNMENTS

GROUP ID NUMBER AND TITLE: GRP061 - TRAINING SUPERVISORS

NUMBER IN GROUP: 13

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: ATC (62%), AFSC (15%), TAC (15%), SAC (8%)

LOCATION: CONUS (92%), OVERSEAS (8%)

DAFSC DISTRIBUTION: 30574 (92%), 30594 (8%)

AVERAGE GRADE: 6.7

AVERAGE TIME IN CAREER FIELD: 138 MONTHS

AVERAGE TIME IN SERVICE: 222 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 92% SUPERVISE AN AVERAGE OF FOUR SUBORDINATES

EXPRESSED JOB INTEREST: DULL (15%), SO-SO (23%), INTERESTING (62%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 23%
FAIRLY WELL OR BETTER 77%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 39%
FAIRLY WELL OR BETTER 61%

AVERAGE NUMBER OF TASKS PERFORMED: 36

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	25
B DIRECTING AND IMPLEMENTING	23
D TRAINING	17
A PLANNING AND ORGANIZING	11

GROUP DIFFERENTIATING TASKS:

TASKS

- A19 SCHEDULE SHIFT OR WORK ASSIGNMENTS
- E45 PREPARE APR OR SUPERVISORY EVALUATION RECORDS
- D2 ATTEND TRAINING CONFERENCES OR MEETINGS
- E43 INVENTORY EQUIPMENT
- B14 DIRECT TRAINING OR TRAINING SUPPORT FUNCTIONS

GROUP ID NUMBER AND TITLE: GRP034 - MAINTENANCE CONTROLLERS

NUMBER IN GROUP: 26

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: AFCS (46%), ADC (35%), AFSC (8%), TAC (4%), USAFE (4%)

LOCATION: CONUS (96%), OVERSEAS (4%)

DAFSC DISTRIBUTION: 30554 (11%), 30574 (81%), 30594 (8%)

AVERAGE GRADE: 6.1

AVERAGE TIME IN CAREER FIELD: 122 MONTHS

AVERAGE TIME IN SERVICE: 198 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 85% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (15%), SO-SO (12%), INTERESTING (73%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 31%
FAIRLY WELL OR BETTER 69%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 73%
FAIRLY WELL OR BETTER 27%

AVERAGE NUMBER OF TASKS PERFORMED: 25

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	33
A PLANNING AND ORGANIZING	20
B DIRECTING AND IMPLEMENTING	19
C EVALUATING	13

GROUP DIFFERENTIATING TASKS:

TASKS

- B27 SUPERVISE MILITARY PERSONNEL WITH AFSC OTHER THAN 305X4
- E20 MAKE TEMPORARY DUTY (TDY) ARRANGEMENTS FOR PERSONNEL
- C25 REVIEW CORRESPONDENCE
- A9 ESTABLISH COMMUNICATIONS BETWEEN WORK CENTERS OR STAFF AGENCIES
- E22 INITIATE OR REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS
(AFTO FORM 349)

GROUP ID NUMBER AND TITLE: GRP022 - PROGRAM MANAGERS

NUMBER IN GROUP: 38

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: AFCS (34%), ADC (18%), TAC (13%), ATC (8%), USAFSS (8%), AFSC (5%), OTHER (5%)

LOCATION: CONUS (82%), OVERSEAS (18%)

DAFSC DISTRIBUTION: 30554 (3%), 30574 (66%), 30594 (29%)

AVERAGE GRADE: 7.0

AVERAGE TIME IN CAREER FIELD: 143 MONTHS

AVERAGE TIME IN SERVICE: 217 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 26% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (11%), SO-SO (5%), INTERESTING (84%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 21%
FAIRLY WELL OR BETTER 79%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 34%
FAIRLY WELL OR BETTER 66%

AVERAGE NUMBER OF TASKS PERFORMED: 25

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	29
C EVALUATING	28
A PLANNING AND ORGANIZING	21

GROUP DIFFERENTIATING TASKS:

TASKS

- E3 DRAFT CORRESPONDENCE OR REPORTS
- C23 REVIEW CORRESPONDENCE
- A9 ESTABLISH COMMUNICATIONS BETWEEN WORK CENTERS OR STAFF AGENCIES
- E48 PREPARE COST ESTIMATES FOR TDY
- C5 EVALUATE CONTRACTOR WORK STANDARDS

GROUP ID NUMBER AND TITLE: GRP045 - LOGISTICS MONITORS

NUMBER IN GROUP: 15

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: AFCS (53%), ADC (27%), AFSC (13%), ATC (7%)

LOCATION: CONUS (87%), OVERSEAS (13%)

DAFSC DISTRIBUTION: 30554 (27%), 30574 (73%)

AVERAGE GRADE: 5.5

AVERAGE TIME IN CAREER FIELD: 106 MONTHS

AVERAGE TIME IN SERVICE: 178 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (27%), SO-SO (27%), INTERESTING (46%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 47%
FAIRLY WELL OR BETTER 53%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 67%
FAIRLY WELL OR BETTER 33%

AVERAGE NUMBER OF TASKS PERFORMED: 33

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	59
A PLANNING AND ORGANIZING	9
C EVALUATING	7

GROUP DIFFERENTIATING TASKS:

TASKS

- E53 REVIEW OR ANNOTATE DAILY DOCUMENT REGISTER AND ITEM SURVEILLANCE LISTS (D04)
- E24 INITIATE OR REVIEW NON-NSN REQUISITION (MANUAL) FORMS (DD FORM 1348-6)
- E54 REVIEW PRIORITY MONITOR REPORTS (D18)
- A12 PLAN INVENTORIES OF SUPPLIES, MATERIEL, OR TURN-IN OF EXCESS PROPERTY
- C24 REVIEW REQUISITIONS OR AUTHORIZATIONS FOR MATERIEL OR TURN-IN OF EXCESS PROPERTY

GROUP ID NUMBER AND TITLE: GRP052 - DEPLOYMENT COMPUTER REPAIRMEN

NUMBER IN GROUP: 55

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: TAC (49%), AFCS (26%), ATC (9%), ADC (7%), USAFSS (4%), OTHER (5%)

LOCATION: CONUS (93%), OVERSEAS (7%)

DAFSC DISTRIBUTION: 30534 (20%), 30554 (64%), 30574 (16%)

AVERAGE GRADE: 4.3

AVERAGE TIME IN CAREER FIELD: 50 MONTHS

AVERAGE TIME IN SERVICE: 89 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 35%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (47%), SO-SO (18%), INTERESTING (35%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 80%
FAIRLY WELL OR BETTER 20%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 84%
FAIRLY WELL OR BETTER 16%

AVERAGE NUMBER OF TASKS PERFORMED: 17

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
N MAINTAINING FACILITIES AND WORK AREAS	60
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	9
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	7

GROUP DIFFERENTIATING TASKS:

TASKS

- N2 CLEAN WORK AREAS
- N1 CLEAN FACILITIES
- N8 REPAIR OR RENOVATE FACILITIES
- I96 PERFORM OPERATIONAL TESTS OF COMPUTER SYSTEMS
- E26 INITIATE OR REVIEW ON-THE-JOB TRAINING RECORD-CONTINUATION SHEET FORMS
(AF FORM 623a)

GROUP ID NUMBER AND TITLE: GRP067 - COMPUTER SYSTEMS CONTROLLERS

NUMBER IN GROUP: 37

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: AFCS (78%), ADC (14%), AFSC (8%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30534 (13%), 30554 (62%), 30574 (24%)

AVERAGE GRADE: 4.4

AVERAGE TIME IN CAREER FIELD: 54 MONTHS

AVERAGE TIME IN SERVICE: 80 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 41%

AMOUNT OF SUPERVISION: 24% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (49%), SO-SO (24%), INTERESTING (27%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 73%
FAIRLY WELL OR BETTER 27%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 81%
FAIRLY WELL OR BETTER 19%

AVERAGE NUMBER OF TASKS PERFORMED: 21

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	36
J TROUBLESHOOTING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	16
N MAINTAINING FACILITIES AND WORK AREAS	15
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	10

GROUP DIFFERENTIATING TASKS:

TASKS

- J5 INTERPRET FAULT INDICATORS
- H14 MAINTAIN VISUAL WATCH DURING OPERATION OF FAULT INDICATORS SUCH AS PRINTOUTS, AUDIO ALARMS, OR LIGHTS
- N2 CLEAN WORK AREAS
- E23 INITIATE OR REVIEW MASTER STATION LOG FORMS (DD FORM 1753)
- H17 MAINTAIN VISUAL WATCH DURING OPERATION OF LINE UNITS

GROUP ID NUMBER AND TITLE: GRP049 - OPERATIONAL TEST NCOS

NUMBER IN GROUP: 8

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: AFCS (38%), ATC (25%), AFLC (13%), ATC (13%), TAC (13%)

LOCATION: CONUS (63%), OVERSEAS (37%)

DAFSC DISTRIBUTION: 30554 (75%), 30574 (25%)

AVERAGE GRADE: 4.8

AVERAGE TIME IN CAREER FIELD: 106 MONTHS

AVERAGE TIME IN SERVICE: 124 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 13%

AMOUNT OF SUPERVISION: NONE

EXPRESSED JOB INTEREST: DULL (38%), SO-SO (25%), INTERESTING (37%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 88%
FAIRLY WELL OR BETTER 12%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 100%

AVERAGE NUMBER OF TASKS PERFORMED: 27

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
H MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	55
N MAINTAINING FACILITIES AND WORK AREAS	12
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	9

GROUP DIFFERENTIATING TASKS:

TASKS

- H2 LOAD OR OPERATE UTILITY COMPUTER PROGRAMS
- H32 OPERATE OPERATORS' CONSOLES
- H1 ANNOTATE OR REVIEW EQUIPMENT OPERATION LOGS
- N2 CLEAN WORK AREAS
- I97 PERFORM OPERATIONAL TESTS OF DATA PROCESSOR SYSTEMS

GROUP ID NUMBER AND TITLE: GRP041 - JOB CONTROLLERS

NUMBER IN GROUP: 20

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: AFCS (50%), AFSC (20%), ADC (15%), TAC (10%), USAFSS (5%)

LOCATION: CONUS (85%), OVERSEAS (15%)

DAFSC DISTRIBUTION: 30534 (10%), 30554 (55%), 30574 (30%), 30594 (5%)

AVERAGE GRADE: 4.6

AVERAGE TIME IN CAREER FIELD: 71 MONTHS

AVERAGE TIME IN SERVICE: 96 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 20%

AMOUNT OF SUPERVISION: 40% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (30%), SO-SO (35%), INTERESTING (35%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 70%
FAIRLY WELL OR BETTER 30%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 90%
FAIRLY WELL OR BETTER 10%

AVERAGE NUMBER OF TASKS PERFORMED: 13

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	56
A PLANNING AND ORGANIZING	19
N MAINTAINING FACILITIES AND WORK AREAS	10

GROUP DIFFERENTIATING TASKS:

TASKS

- E20 INITIATE OR REVIEW INSPECTION DOCUMENT FORMS (AF FORM 2445)
- E23 INITIATE OR REVIEW MASTER STATION LOG FORMS (DD FORM 1753)
- A9 ESTABLISH COMMUNICATIONS BETWEEN WORK CENTERS OR STAFF AGENCIES
- E33 INITIATE OR REVIEW SCHEDULE OF TECHNICIAN AVAILABILITY FORMS
(AF FORM 2446)
- N7 REMOVE OR DISPOSE OF TRASH, WASTE, OR MATERIALS

GROUP ID NUMBER AND TITLE: GRP008 - COMPUTER EQUIPMENT INSTALLERS

NUMBER IN GROUP: 15

PERCENT OF SAMPLE: LESS THAN 1%

MAJOR COMMAND DISTRIBUTION: AFCS (87%), AAC(7%), AFSC (6%)

LOCATION: CONUS (93%), OVERSEAS (7%)

DAFSC DISTRIBUTION: 30534 (33%), 30554 (60%), 30574 (7%)

AVERAGE GRADE: 4.4

AVERAGE TIME IN CAREER FIELD: 25 MONTHS

AVERAGE TIME IN SERVICE: 74 MONTHS

PERCENT MEMBERS IN FIRST ENLISTMENT: 20%

AMOUNT OF SUPERVISION: 13% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

EXPRESSED JOB INTEREST: DULL (27%), SO-SO (7%), INTERESTING (66%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 60%
FAIRLY WELL OR BETTER 40%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 87%
FAIRLY WELL OR BETTER 13%

AVERAGE NUMBER OF TASKS PERFORMED: 23

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE TIME SPENT BY ALL MEMBERS</u>
G MONITORING AND OPERATING ELECTRONIC COMPUTER SYSTEMS	39
I MAINTAINING IN-PLACE ELECTRONIC COMPUTER SYSTEMS AND RELATED EQUIPMENT	19
F PERFORMING GENERAL COMPUTER SYSTEMS MAINTENANCE	10
N MAINTAINING FACILITIES AND WORK AREAS	8

GROUP DIFFERENTIATING TASKS:

TASKS

- G11 INSTALL OR RUN CABLE OR WIRING FOR EQUIPMENT INSTALLATION
- G8 DRILL HOLES FOR INSTALLATION MOUNTINGS
- F7 REMOVE OR INSTALL ELECTRICAL WIRING
- N2 CLEAN WORK AREAS
- G13 INVENTORY EQUIPMENT, MATERIALS, OR SUPPLIES FOR INSTALLATION OF
COMPUTER SYSTEMS